

ABSTRACT OF THE DISCLOSURE

The present invention concerns a double confocal scanning microscope (1) having an illuminating beam path (2) of at least one light source (3), and a detected beam path (4) of at least one detector (5), and in order to achieve almost the theoretically possible resolution capability, in particular in the context of multi-color fluorescence applications, is characterized in that the optical properties in particular of the components (6, 10, 13, 14) arranged in the beam path are coordinated with one another in such a way that the accumulated aberrations, with respect to the optical axis (33) and/or at least one surface (18, 19, 20) in the specimen region, are at least of the order of magnitude of the theoretically achievable resolution capability.

(FIG. 1)